

UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Johann Magg et al
Application Number: Unassigned
Filing Date: Concurrently Herewith
Group Art Unit:
Examiner:
Title: COFFEE MACHINE COMPRISING A CONTINUOUS
 HEATER

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. 1.98, I am submitting a completed "INFORMATION DISCLOSURE STATEMENT BY APPLICANTS" (*Form PTO/SB/08A*) with patents and/or publications as delineated therein attached.

DE 25 51 779 discloses an electric flow heater for coffee machines, in which a tubular heating element and a water pipe fitted to a supporting shell of sheet metal construction are in thermally conductive contact and are secured together by the shaping of the supporting shell, characterized in that the supporting shell (1, 2) is moulded into a channel (5, 6), between the walls of which (7; 8; 9; 10) the tubular heating element (3) and the water pipe (4) are secured together by compression.

DE 39 03 649 discloses electric flow heaters, in which a helical, metal-cased tubular heater is embedded in a plastic jacket which forms the flow tube, show a relatively high susceptibility for overheating, caused by calcification. The overheating can in this case go so far that it results in charring of the plastic. It is therefore the object of the present invention to create a flow heater which on the one hand has the advantages of the known plastic design, in which, however, on the other hand the plastic parts of the heater are prevented from being damaged, or even destroyed, by overheating. This object is achieved according to the invention in that the helical tubular heater (1) is surrounded by a metal envelope (2) and is embedded, together with said envelope, in the plastic casing (4).

EP 0 393 385 discloses that the invention relates to a coffee machine, in which the generation of hot water is effected by a tubular instant heater which is known per se. The essential factor in this case is that the volume of this instant heater is only about 0.1 litre to 0.5 litre.

DE 298 09 279 U 1 discloses a heating device for use in household appliances for the preparation of hot drinks incorporating an enclosed heating water chamber (20), into which a cold water inlet (22) discharges and from which a heating water feed line (28) projects, and a heater, characterized in that the heater is constructed in the form of a flow heater.

DE 83 35 620 U1 discloses a hose for the conveyance of fluids, including e.g. drinking water or beverages, incorporating a bendable longitudinal section of elastic material construction, characterized in that the wall of the hose (cold water line 22, hot water line 72), in its bendable longitudinal section (corrugated pipe sections 46, 74, 110) and for the enhancement of its bending properties, incorporates corrugations (protuberances 100) which run transversely to the longitudinal axis of the hose and which extend over part of the hose circumference only.

EP 1 321 708 discloses that the heating system comprises a heating device which has at least two heaters (2). The heaters are in good heat-conducting connection with the steam pipe (1). The contact surfaces (3) of the heaters and the steam pipe are formed flat. The heaters may be formed as tubular heaters. The steam pipe and/or the heater walls consist of aluminum or an aluminum alloy. <??>The heating system further comprises a mounting link (4) which is made of a good heat-conducting material, preferably aluminum or aluminum alloy. The mounting link may be soldered or welded to the heater in the area of contact surfaces (3). A thermostat (5) is fixed to the mounting link.

DE 198 52 883 discloses that the heater (19) has a water pipe (10) with inlet and outlet at both ends, an electrical heating element (11) arranged along and in thermal contact with the water pipe and a temperature regulator (15) in thermal contact with the water pipe. The temperature regulator is attached directly to the water pipe and is in direct thermal contact with it.

If no translation of pertinent portions of any foreign language patents or publications mentioned within the "INFORMATION DISCLOSURE STATEMENT BY APPLICANTS" is included with the aforementioned copies of those applications, patents and/or publications, it is because no existing translation is readily available to the Applicants. As per the Notice in 1273 OG 55 (August 5, 2003) no copies of any above-mentioned US patents and US patent application publications are submitted for this application which was filed after June 30, 2003.

Respectfully submitted



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July 24, 2006

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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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(Use as many sheets as necessary)

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Attorney Docket Number	2004P00160WOUS

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U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)	MM-DD-YYYY			
		WO 03/030696	04/17/2003	Robert F. Fanzutti et al		✓
		GB 2 318 173	04/15/1998	John Cotton		✓
		DE 25 51 779	05/26/1977	Nikolaus Neimanns		
		DE 39 03 649	04/12/1990	Erich Hillinger		
		EP 0 393 385	10/24/1990	Niro-Plan AG		
		DE 298 09 279 U 1	10/8/1998	W. Hermann		

Examiner Signature		Date Considered	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (If known)				
		DE 83 35 620 U1	03/07/1985	Bosch-Siemens Hausgeraete		
		EP 1 321 708	06/25/2003	Rudi Kitt et al		
		DE 198 52 883	01/27/2000	Hans-Herbert Fuchs et al		
		International Search Report PCT/EP2005/050220				✓

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